



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/821,689
Source: TFWO
Date Processed by STIC: 8/12/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
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Revised 05/17/04



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/821,689

DATE: 08/12/2004

TIME: 15:16:40

Input Set : A:\-31-1.app

Output Set: N:\CRF4\08122004\J821689.raw

3 <110> APPLICANT: Williams, John G. K.
 4 LI-COR, Inc.
 6 <120> TITLE OF INVENTION: Composition and Method for Nucleic Acid Sequencing
 8 <130> FILE REFERENCE: 020031-003110US
 10 <140> CURRENT APPLICATION NUMBER: US 10/821,689
 11 <141> CURRENT FILING DATE: 2004-04-08
 13 <150> PRIOR APPLICATION NUMBER: US 60/461,522
 14 <151> PRIOR FILING DATE: 2003-04-08
 16 <150> PRIOR APPLICATION NUMBER: US 60/462,988
 17 <151> PRIOR FILING DATE: 2003-04-14
 19 <160> NUMBER OF SEQ ID NOS: 23
 21 <170> SOFTWARE: PatentIn Ver. 2.1
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 89
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Artificial Sequence
 28 <220> FEATURE:
 29 <223> OTHER INFORMATION: Description of Artificial Sequence: target nucleic
 30 acid, single molecule in microtiter plate well
 32 <400> SEQUENCE: 1
 33 tatgaaaatt ttccggttta aggcgtttcc gttcttcttc gtcataactt aatgttttta 60
 34 tttaaaatac cctctgaaaa gaaaggaaa 89
 37 <210> SEQ ID NO: 2
 38 <211> LENGTH: 89
 39 <212> TYPE: DNA
 40 <213> ORGANISM: Artificial Sequence
 42 <220> FEATURE:
 43 <223> OTHER INFORMATION: Description of Artificial Sequence: target nucleic
 44 acid, single molecule in microtiter plate well
 46 <400> SEQUENCE: 2
 47 cgacaggtgc tgaaagcgag gctttttggc ctctgtcgtt tcctttctct gtttttgtcc 60
 48 gtggaatgaa caatggaagt caacaaaaa 89
 51 <210> SEQ ID NO: 3
 52 <211> LENGTH: 89
 53 <212> TYPE: DNA
 54 <213> ORGANISM: Artificial Sequence
 56 <220> FEATURE:
 57 <223> OTHER INFORMATION: Description of Artificial Sequence: target nucleic
 58 acid, single molecule in microtiter plate well
 60 <400> SEQUENCE: 3
 61 gcagctggct gacattttcg gtgcgagtat ccgtaccatt cagaactggc aggaacaggg 60
 62 aatgcccggt ctgcgaggcg gtggcaagg 89
 65 <210> SEQ ID NO: 4

Please explain source of genetic material. Does Not Comply
 Corrected Diskette Needed (pg. 1-2)
 Invalid Response

Please explain source of genetic material.

Invalid Response

Same error

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66 <211> LENGTH: 89
 67 <212> TYPE: DNA
 68 <213> ORGANISM: Artificial Sequence
 70 <220> FEATURE:
 71 <223> OTHER INFORMATION: Description of Artificial Sequence: target nucleic
 72 acid, single molecule in microtiter plate well
 74 <400> SEQUENCE: 4
 75 gtaatgaggt gctttatgac tctgccgcgcg tcataaaatg gtatgccgaa agggatgctg 60
 76 aaattgagaa cgaaaagctg cgccgggag 89
 79 <210> SEQ ID NO: 5
 80 <211> LENGTH: 21
 81 <212> TYPE: PRT
 82 <213> ORGANISM: Artificial Sequence
 84 <220> FEATURE:
 85 <223> OTHER INFORMATION: Description of Artificial Sequence: amino acid
 86 anchor
 88 <220> FEATURE:
 89 <221> NAME/KEY: MOD_RES
 90 <222> LOCATION: (11)
 91 <223> OTHER INFORMATION: Xaa = p-acetyl-L-phenylalanine (pa-Phe)
 93 <400> SEQUENCE: 5
 W--> 94 Leu Leu Ser Lys Lys Arg Ser Leu Cys Cys Xaa Cys Thr Val Ile Val
 95 1 5 10 15
 97 Tyr Val Thr Asp Thr
 98 20
 101 <210> SEQ ID NO: 6
 102 <211> LENGTH: 25
 103 <212> TYPE: DNA
 104 <213> ORGANISM: Artificial Sequence
 106 <220> FEATURE:
 107 <223> OTHER INFORMATION: Description of Artificial Sequence: first
 108 double-stranded oligonucleotide adaptor
 110 <220> FEATURE:
 111 <221> NAME/KEY: modified_base
 112 <222> LOCATION: (1)
 113 <223> OTHER INFORMATION: n = biotinylated c
 115 <400> SEQUENCE: 6
 W--> 116 ngccacatta cacttcctaa cacgt 25
 119 <210> SEQ ID NO: 7
 120 <211> LENGTH: 24
 121 <212> TYPE: DNA
 122 <213> ORGANISM: Artificial Sequence
 124 <220> FEATURE:
 125 <223> OTHER INFORMATION: Description of Artificial Sequence: complement of
 126 first double-stranded oligonucleotide adaptor
 128 <400> SEQUENCE: 7
 129 cgtgttagga agtgtaatgt ggcg 24
 132 <210> SEQ ID NO: 8
 133 <211> LENGTH: 25

same error

Please explain source of genetic material.

What is this?

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134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: Description of Artificial Sequence:second
139     double-stranded oligonucleotide adaptor
141 <400> SEQUENCE: 8
142 cagtaggtag tcaaggctag agtct                                25
145 <210> SEQ ID NO: 9
146 <211> LENGTH: 24
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: Description of Artificial Sequence:complement of
152     second double-stranded oligonucleotide adaptor
154 <400> SEQUENCE: 9
155 gactctagcc ttgactacct actg                                24
158 <210> SEQ ID NO: 10
159 <211> LENGTH: 30
160 <212> TYPE: DNA
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Description of Artificial Sequence:ligated DNA
165     product
167 <220> FEATURE:
168 <221> NAME/KEY: modified_base
169 <222> LOCATION: (1)
170 <223> OTHER INFORMATION: n = biotinylated c
172 <220> FEATURE:
173 <221> NAME/KEY: modified_base
174 <222> LOCATION: (26)..(30)
175 <223> OTHER INFORMATION: n = g, a, c or t
177 <400> SEQUENCE: 10
W--> 178 ngccacatta cacttcctaa cacgtnnnnn                    30
181 <210> SEQ ID NO: 11
182 <211> LENGTH: 33
183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Description of Artificial Sequence:ligated DNA
188     product
190 <220> FEATURE:
191 <221> NAME/KEY: modified_base
192 <222> LOCATION: (1)..(5)
193 <223> OTHER INFORMATION: n = g, a, c or t
195 <400> SEQUENCE: 11
W--> 196 nnnnnagact ctagccttga ctacctactg aaa                33
199 <210> SEQ ID NO: 12
200 <211> LENGTH: 30
201 <212> TYPE: DNA

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202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Description of Artificial Sequence:ligated DNA
206     product, unbiotinylated DNA strand eluted at
207     alkaline pH
209 <220> FEATURE:
210 <221> NAME/KEY: modified_base
211 <222> LOCATION: (1)..(5)
212 <223> OTHER INFORMATION: n = g, a, c or t
214 <400> SEQUENCE: 12
W--> 215 nnnnnacgtg ttaggaagtg taatgtggcg 30
218 <210> SEQ ID NO: 13
219 <211> LENGTH: 30
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Description of Artificial Sequence:ligated DNA
225     product, unbiotinylated DNA strand eluted at
226     alkaline pH
228 <220> FEATURE:
229 <221> NAME/KEY: modified_base
230 <222> LOCATION: (1)
231 <223> OTHER INFORMATION: n = 5' phosphorylated c
233 <220> FEATURE:
234 <221> NAME/KEY: modified_base
235 <222> LOCATION: (26)..(30)
236 <223> OTHER INFORMATION: n = g, a, c or t
238 <400> SEQUENCE: 13
W--> 239 nagtaggtag tcaaggctag agtctnnnnn 30
242 <210> SEQ ID NO: 14
243 <211> LENGTH: 59
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Description of Artificial Sequence:primed circular
249     template strand, eluted strands circularized
251 <220> FEATURE:
252 <221> NAME/KEY: modified_base
253 <222> LOCATION: (1)..(59)
254 <223> OTHER INFORMATION: n = g, a, c or t
256 <400> SEQUENCE: 14
W--> 257 nnnnncgtgt taggaagtgt aatgtggcgc agtaggtag caaggctaga gtctnnnnn 59
260 <210> SEQ ID NO: 15
261 <211> LENGTH: 49
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial Sequence
265 <220> FEATURE:
266 <223> OTHER INFORMATION: Description of Artificial Sequence:primer oligo
267     complementary to both adaptors

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Input Set : A:\-31-1.app

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269 <400> SEQUENCE: 15
270 agactctagc cttgactacc tactgcgccca cattacactt cctaacacg      49
273 <210> SEQ ID NO: 16
274 <211> LENGTH: 27
275 <212> TYPE: DNA
276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Description of Artificial Sequence:T7 DNA
280     polymerase gene forward amplification primer
281     encoding exonuclease mutations
283 <400> SEQUENCE: 16
284 atgatcgttt ctgccatcgc agctaac      27
287 <210> SEQ ID NO: 17
288 <211> LENGTH: 16
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: Description of Artificial Sequence:T7 DNA
294     polymerase gene reverse amplification primer
296 <400> SEQUENCE: 17
297 tcagtggcaa atcgcc      16
300 <210> SEQ ID NO: 18
301 <211> LENGTH: 75
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic
307     oligonucleotide encoding Strep-Tag II sequence
308     overlapping 5'-end N-terminus of amplified T7
309     polymerase gene with 2 exo- mutations
311 <220> FEATURE:
312 <221> NAME/KEY: CDS
313 <222> LOCATION: (1)..(75)
314 <223> OTHER INFORMATION: Strep-Tag II peptide, spacer and T7 polymerase
315     N-terminus overlap with 2 exo- mutations
317 <400> SEQUENCE: 18
318 atg tcc aac tgg tcc cac ccg cag ttc gaa aaa ggt gga ggt tcc gct      48
319 Met Ser Asn Trp Ser His Pro Gln Phe Glu Lys Gly Gly Gly Ser Ala
320   1           5           10           15
322 atg atc gtt tct gcc atc gca gct aac      75
323 Met Ile Val Ser Ala Ile Ala Ala Asn
324           20           25
327 <210> SEQ ID NO: 19
328 <211> LENGTH: 25
329 <212> TYPE: PRT
330 <213> ORGANISM: Artificial Sequence
332 <220> FEATURE:
333 <223> OTHER INFORMATION: Strep-Tag II peptide, spacer and T7 polymerase
334     N-terminus overlap with 2 exo- mutations

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/821,689

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; Xaa Pos. 11 ✓
Seq#:6; N Pos. 1 ✓
Seq#:10; N Pos. 1, 26, 27, 28, 29, 30 ✓
Seq#:11; N Pos. 1, 2, 3, 4, 5 ✓
Seq#:12; N Pos. 1, 2, 3, 4, 5 ✓
Seq#:13; N Pos. 1, 26, 27, 28, 29, 30 ✓
Seq#:14; N Pos. 1, 2, 3, 4, 5, 55, 56, 57, 58, 59 ✓

VERIFICATION SUMMARYPATENT APPLICATION: **US/10/821,689**

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TIME: 15:16:41

Input Set : **A:\-31-1.app**Output Set: **N:\CRF4\08122004\J821689.raw**

L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0